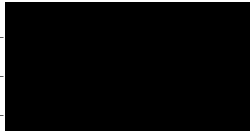


US EPA ARCHIVE DOCUMENT

<b>1. Incident Name</b>	<b>2. Date Prepared</b>	<b>3. Time Prepared</b>	<b>UNIT LOG ICS 214</b>	
Kalamazoo River/Enbridge Spill	11/17/2012	1800		
<b>4. Unit Name/Designators</b>	<b>5. Unit Leader</b>		<b>6. Operational Period :</b>	
Containment Branch Recovery Team 1	<b>Name:</b>	Dan Capone START/US EPA)	<b>From:</b>	11/17/2012 0730
	<b>Position:</b>	Operations Section Chief	<b>To:</b>	11/17/2012 1650
<b>7. Personnel Roster Assigned</b>				
<b>Name</b>	<b>ICS Position</b>	<b>DUTY CELL</b>		
Dan Capone	Operations Section Chief			
Rex Johnson	Containment Branch Director			
Sean Kane	Field Team Lead/CBR-4			
<b>8. Activity Log</b>				
<b>Activity Area</b>	MP 37.00 – MP 37.25 E 4.0 Boom Configurations (Boom A, B, C-1 and C-2)	<b>LAT</b>	<b>LAT</b>	
		<b>Various</b>	<b>Various</b>	
		(DD.MMMM)	(DD.MMMM)	
<b><u>OIL OBSERVED</u></b>	<b>EXTENT OF OIL IMPACTED AREA</b>			
	<b>DENSITY OF OIL /SHEEN</b>			
<b>Total Collection Points</b>				
<b>Total Boom Deployed</b>				
<b>Activity</b>	<b><u>Weston/START CBR 4 Team Activity:</u></b>  Oversight documentation of subsurface x-tex curtain removal operations as it pertained to Enbridge field team # 4 (Jon Carveth/Aecom) within the Morrow Lake delta E 4.0 boom configuration conducting turbidity monitoring to establish and document upstream NTU measurements prior to removal operations for background NTU levels and monitoring approximately 300' downstream in the water flow path of each x-tex segment during subsurface containment removal operations at a minimum of 30 minute intervals. In addition to general oversight documentation of potential oil globules and oil sheen frequency and amount.  <b>Boom A - (MP 37.00 &amp; 37.25 LDB) Upstream – Depth to sediment approx 2.0'</b> 0.5" = 3.66 NTU 2.0' = 4.5 NTU <b>Boom A - Downstream – Depth to sediment approx 2.5'</b> 0.5" = 5.41 NTU 2.0" = 4.58 NTU <b>Boom A - Downstream – Depth to sediment approx 2.5'</b> 0.5" = 6.01 NTU 2.0' = 6.20 NTU			

**Boom A - Downstream – Depth to sediment approx 2.5'**

0.5" = 3.59 NTU

2.0' = 2.86 NTU

**Boom B – (MP 37.25 LDB) Upstream – Depth to sediment approx 2.3'**

0.5" = 2.90 NTU

2.0' = 2.79 NTU

**Boom B – Downstream – Depth to sediment approx 2.3'**

0.5" = 3.41 NTU

2.0' = 5.51 NTU

**Boom B – Downstream– Depth to sediment approx 2.3'**

0.5" = 4.44 NTU

2.0' = 3.65 NTU

**Boom B – Downstream – Depth to sediment approx 2.3'**

0.5" = 4.21 NTU

2.0' = 2.73 NTU

**Boom C-1 (MP 37.25 LDB) Upstream – Depth to sediment approx 2.0'**

0.5" = 3.47 NTU

2.0' = 2.66 NTU

**Boom C-1 Downstream – Depth to sediment approx 2.5'**

0.5" = 3.03 NTU

2.0' = 2.25 NTU

**Boom C-1 Downstream– Depth to sediment approx 2.5'**

0.5" = 2.61 NTU

2.0' = 2.53 NTU

**Boom C-2 (MP 37.25) Upstream – Depth to sediment 2.0'**

0.5" = 2.38 NTU

2.0' = 2.72 NTU

**Boom C-2 Downstream – Depth to sediment 3.5'**

0.5" = 2.31 NTU

2.0' = 2.55 NTU

3.5' = 2.59 NTU

**Boom C-2 Downstream – Depth to sediment 3.5'**

0.5" = 3.0 NTU

2.0' = 2.92 NTU

3.5' = 2.43 NTU

	<p><b>Boom C-2</b> Downstream – Depth to sediment 5.5’ 0.5” = 3.88 NTU 2.0’ = 3.01 NTU 3.5’ = 2.63 NTU <b>5.5’ = 17.4 NTU*</b></p> <p><b>Boom C-2</b> Downstream – Depth to sediment 5.0’ 0.5” = 4.69 NTU 2.0’ = 2.64 NTU 3.5’ = 3.06 NTU 5.0’ = 2.59 NTU</p> <p><b>Boom C-2</b> Downstream – Depth to sediment 5.0’ 0.5” = 2.58 NTU 2.0’ = 2.74 NTU 3.5’ = 2.5 NTU 5.0’ = 2.38 NTU</p> <p><b>Boom C-2</b> Downstream – Depth to sediment 5.0’ 0.5” = 3.08 NTU 2.0’ = 2.95 NTU 3.5’ = 3.10 NTU 5.0’ = 3.02 NTU</p>
<b>Health and Safety Issues</b>	None
<b>Comments</b>	<p>Boom C-2 Downstream at 5.5’ depth with a measurement of 17.4 NTU is associated with encroaching boat traffic and turbidity probe impact within sediment during lowering.</p> <p>Detailed field notes with measurements are in CBR-4 Logbook.</p>